



Henco underfloor heating: a pleasant and comfortable warmth.



WE CARE TO CONNECT

Why Henco underfloor heating?

Every floor heating project is tailor made and requires an accurate approach. Henco's underfloor heating systems provide a **suitable energy-conscious solution for heating and/or cooling**. The wide range of floor heating and cooling systems, manifolds and controls combine comfort and convenience.

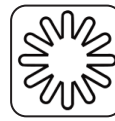
All system components display the reliability that is the Henco brand.

All this makes Henco the **best partner for your underfloor heating project**. We are pleased to work out a system proposal based on your wishes. For carefree warmth, year after year.

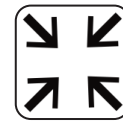
As well as a range of top-class products, Henco also boasts an **experienced, customer-friendly design office** that provides appropriate support across the board:

- ✓ **Expert technical advice**
- ✓ **Diligent follow-up in consultation with all parties**
- ✓ **Technical file, complete underfloor heating calculation**
- ✓ **In-house engineering insurance**
- ✓ **Detailed scale installation plans**

Advantages of floor heating



source of energy



space saving



hygienic



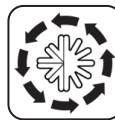
aesthetic



reduced energy consumption



comfort



self-regulating

10 YEAR WARRANTY

Henco has been awarded more than **50 quality certificates** by renowned institutes all over the world. These certificates underpin the **10-year warranty** included in every Henco underfloor heating.

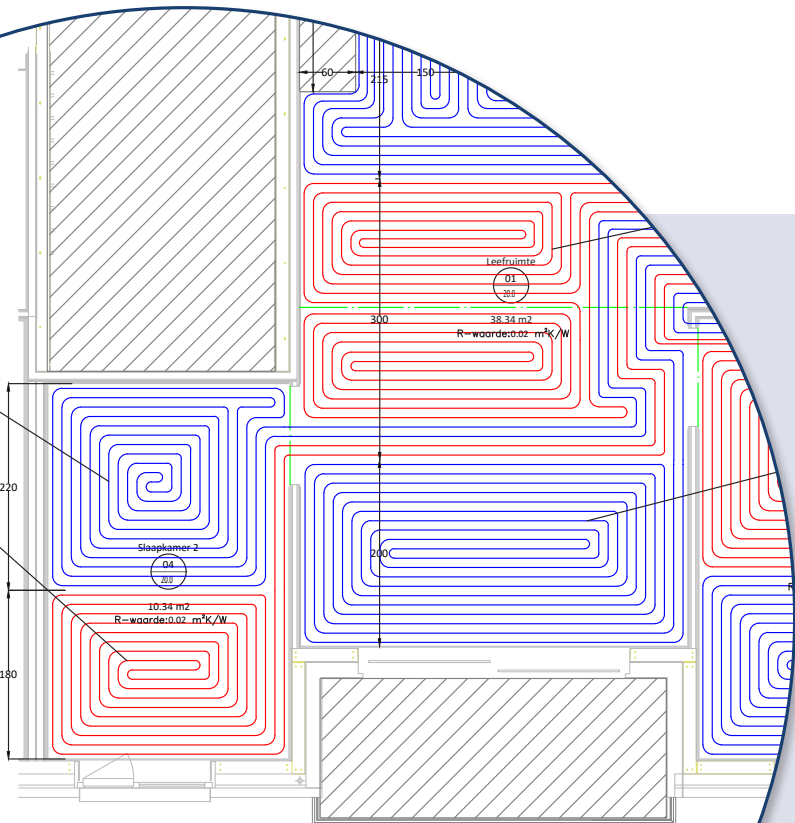
Detail of an installation plan

Lokaal:	Slaapkamer 2
Verdeler (Niveau 0)/06	
CLIP Standard (PE-Xc/AL/PE-Xc) 16x2mm	
Totale Lengte Kring:	78.9 m
lengte aanvoerbalingen	25.4 m
Hartafstand:	10.0 cm

Lokaal:	Slaapkamer 2
Verdeler (Niveau 0)/05	
CLIP Standard (PE-Xc/AL/PE-Xc) 16x2mm	
Totale Lengte Kring:	75.7 m
lengte aanvoerbalingen	29.4 m
Hartafstand:	10.0 cm

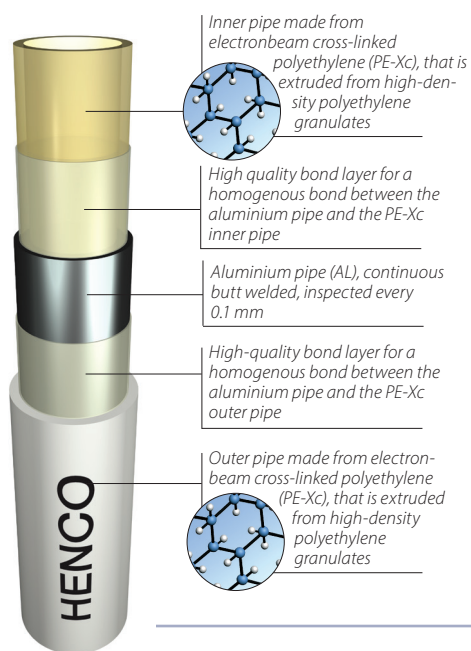
Verdeler Nr.:	ST01/VA01
Verdeler (Niveau 0)	
Aantal uitgangen:	8
Aanvoertemp [°C]:	35.0
Vermogen [W]:	4215
Debiet [kg/h]:	724
Drukverlies [mbar]:	147

Ventiel instelling	
VA01 van rol 3: 0.25 (1.1 l/min) (Badkamer)	
VA02 van rol 1: 0.25 (1.5 l/min) (Slaapkamer 1)	
VA03 van rol 1: 0.5 (1.6 l/min) (Slaapkamer 1)	
VA04 van rol 1: 2.5 (2.0 l/min) (Leefruimte)	
VA05 van rol 2: 0.25 (1.1 l/min) (Slaapkamer 2)	
VA06 van rol 1: 0.25 (1.3 l/min) (Slaapkamer 2)	
VA07 van rol 1: 2.5 (2.0 l/min) (Leefruimte)	
VA08 van rol 2: 0.5 (1.6 l/min) (Leefruimte)	



Henco **multilayer pipe** - only the best is good enough.

Henco multilayer pipe



Henco PE-Xc/Al/PE-Xc

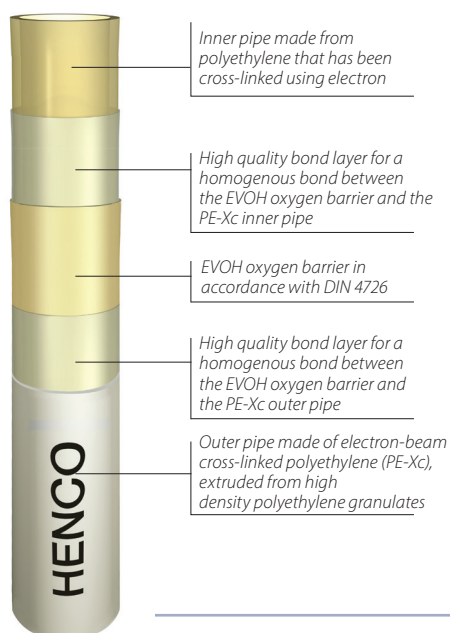
At the heart of our comprehensive range is without doubt the patented multilayer pipe. The HENCO multilayer pipe was conceived under the motto "only the best is good enough" and it has been designed to ensure that it meets the most demanding and diverse usage requirements.



This pipe has many advantages:

- ▶ Aluminium core gives the pipe excellent heat conductivity, which increases the reaction speed
- ▶ 100% oxygen-tight, no pollution in your floor heating system
- ▶ Completely resistant to corrosion and chemical and electrochemical influences
- ▶ Inner and outer pipe cross-linked polyethylene made by electron beams, optimizes the durability and technical specifications of the pipe
- ▶ Low linear expansion coefficient reduces stress in the floor
- ▶ Flexible, easy to bend, even at low temperatures, retains its curved shape

Henco synthetic pipe



HENCO 5L PE-Xc

The HENCO 5L PE-Xc synthetic pipe is made up of five layers. It has an inner and outer layer of electron-beam cross-linked polyethylene that has been cross-linked using electron beams EVOH oxygen barrier that conforms with DIN 4726 which allows this synthetic pipe to be used in heating applications. These three different layers are bonded to each other by two high-quality, homogenous connecting layers.

ALU-PEX

100% oxygen-tight
 Remains in shape
 Thermal conductivity coefficient: 0,43 w/m.K
 Expansion coefficient: 0,025mm (mm/m.K)

VOLKUNSTSTOF

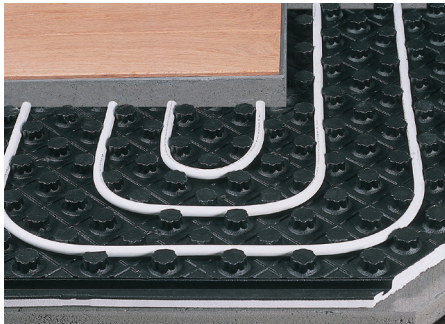
94% oxygen-tight (DIN4726)
 Does not remain in shape
 Thermal conductivity coefficient: 0,35 w/m.K
 Expansion coefficient: 0,17mm (mm/m.K)

Henco has **6 different mounting systems** for underfloor heating.

To determine which type is best applied, there are a number of factors that help make the choice:

- ▶ **New construction**
- ▶ **Construction height**
- ▶ **Weight**

- ▶ **Thermal insulation**
- ▶ **Acoustic insulation**



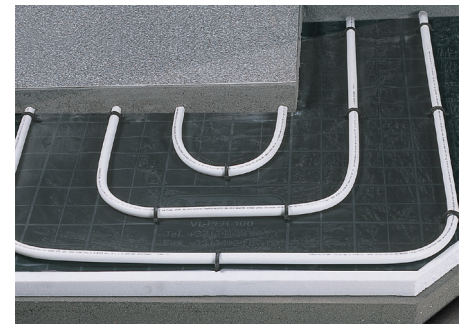
Systemplate

An underfloor heating system in which the pipe is mounted in a **pre-formed system plate**. This system can be quickly installed and does not require any special tools. It is important that the system plate is laid on a level surface. A maximum of one insulation layer is allowed under the system plate.



Steel mesh

An underfloor heating system in which the pipe is mounted on a **steel mesh** by means of clips or binding wire. The steel mesh is available with grids of 15 x 15 cm and 10 cm x 10 cm.



Tacker

An underfloor heating system in which the pipe is held in place by means of **tacker staples**. This is a system commonly used to install underfloor heating on large surfaces. The corresponding tacker stapling device must be used to apply tacker staples.

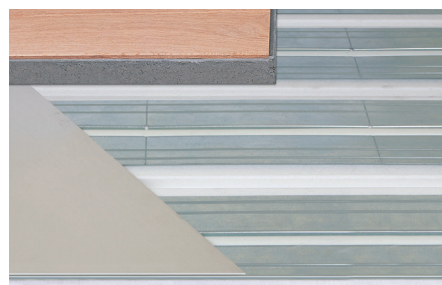
These 3 systems are called 'wet systems' because the pipes come into direct contact with the screed.

Henco also provides 3 'dry systems'. These can also be used for wall heating.



RENO

With this underfloor heating system the pipe is installed in a **preformed gypsum fibre board**. The RENO12 system is particularly suited for low construction heights, such as during renovation. It is important to install the gypsum fibre board on a completely flat surface.



Omega

An underfloor heating system for when a **small construction height** is required. Another important property is the low weight of the total dry system. This allows the system to be applied in places where the load-bearing construction is less strong (e.g. framed structures).



Secor

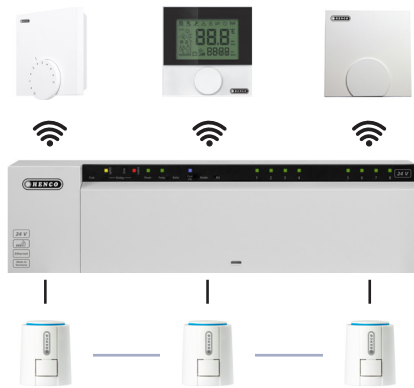
A dry system that combines the low building height of RENO with the lightness of Omega. The absence of a screed/chape guarantees fast installation and low thermal inertia. The panels already have an aluminium layer for optimal heat emission. Henco Secor is installed with the Henco multilayer pipes and is only installed in a meander pattern.

Precise regulation: crucial! To control floor heating, Henco offers both wireless and

Wireless control unit

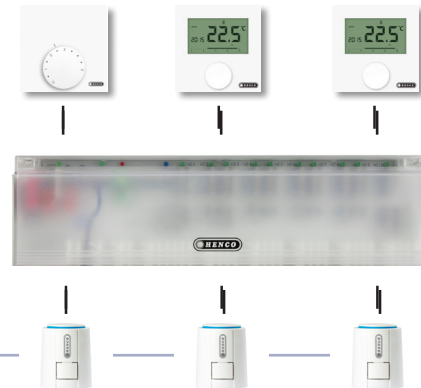


- ▶ Next generation room-by-room temperature control
- ▶ The multi-purpose system excels in terms of energy efficiency and ease of use
- ▶ Can even be controlled with smartphones and PCs.
- ▶ Pump, boiler control and change-over input heating and cooling



Wired control unit

- ▶ The new generation of an existing product
- ▶ A perfect solution for all new builds and modernisation projects
- ▶ Smart Start/Smart Stop technology for greater energy efficiency
- ▶ Pump, boiler control and change-over input heating and cooling



Actuators

- ▶ Energy efficient operator: Only 1 Watt consumption
- ▶ Adapter concept fits 99% of the existing valves and distributors
- ▶ Patented protection in all mounting modes for leaking valves
- ▶ Fully isolated contacts: no short-circuiting possible
- ▶ 100% waterproof
- ▶ Also available with pluggable cable
- ▶ 24V and 230V

A specific manifold for every system

Henco has all the necessary manifolds with accessories and controls in its range. In short, for a complete floor heating system from A to Z you must be at Henco.

The Henco manifolds are made of steel, brass or composite. These last two are best suited for heating and cooling.

UFH-MDK



- ▶ Compact composite monoblock manifold
- ▶ Adjustable flowmeters
- ▶ Brass torque free Eurocone connectors
- ▶ Adaptable composite brackets
- ▶ Including air vent, thermometer and drain valve
- ▶ 1" brass swivel nut entry connection

UFH-MDSS



- ▶ Adjustable flowmeters
- ▶ Adaptable brackets in composite
- ▶ Integrated air vent, drain and filling tap
- ▶ 1" connection with union nut
- ▶ Integrated control valves
- ▶ Compact design

References



Andorra - Soccer field heating



Italy - Floor heating in castle



Belgium - Concrete core activation



Nederland - Vloerverwarming



Kroatië - Koeling indoor schaatsbaan



Frankrijk - Vloerverwarming



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For more information, please contact the regional manager

✉ project@hencofloor.be

